## PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2000-277003

(43)Date of publication of application: 06.10.2000

(51)Int.CI.

H01J 9/02 H01J 1/304

(21)Application number: 11-118462 \*\*

(71)Applicant: FUTABA CORP

(22)Date of filing:

23.03.1999

(72)Inventor: TAKIGAWA HIROSHI

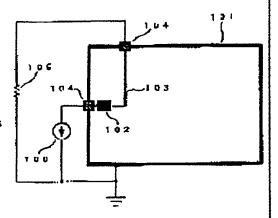
**ITO SHIGEO** 

## (54) MANUFACTURE OF ELECTRON EMISSION SOURCE AND ELECTRON EMISSION SOURCE

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a manufacturing method of an electron emission source and the electron emission source which is easily manufactured and excellent in an electron emission characteristic.

SOLUTION: A chamber 101 is made to have an He atmosphere of 1 Pa pressure and is arc discharged for one second by making an arc current of a 100A direct current flow, and a negative electrode 102 is locally heated. Thereby a negative electrode material constructing a negative electrode 102 is scattered so as to produce carbon particles formed with a plurality of carbon nano- tubes on the surface thereof. The carbon particles are collected and used as an emitter of an electron emission source.



## **LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

http://www.10 indl noini on in/DA1/month/datail/main/...AAA....AKODAA10077000D

BEST AVAILABLE COPY